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CLAIMS

1. A heat exchanger plate (1) comprising a number of 5 turbulence-promoting protuberances (4) which project from the plane (3) of the heat exchanger plate, characterised in that

the protuberances (4) have a surface profile (6) for promoting break-up of laminar boundary layers, and the surface profile (6) consists of spherical or ellipsoid segments.

- 2. A heat exchanger plate (1) as claimed in claim 1, which together with a plurality of identical heat exchanger plates (1) is stackable in such a manner that the protuberances (4) in a first heat exchanger plate (1) are partially accommodated in the protuberances (4) in a second heat exchanger plate (1).
- 3. A heat exchanger plate (1) as claimed in claim 1, in which the protuberances (4) are symmetrically arranged.
 - 4. A heat exchanger plate (1) as claimed in claim 1, in which the surface profile (6) has a profile depth that is considerably smaller than the depth of the protuberances (4).
- 5. A heat exchanger plate (1) as claimed in claim 1, in which the surface profile (6) is concavely or convexly arranged relative to the protuberances (4).
 - 6. A heat exchanger plate (1) as claimed in claim 1, in which the geometric transition between the plane (3) of the heat exchanger plate (1) and the protuberances (4) is provided with a radius.
 - 7. A heat exchanger plate (1) as claimed in claim 1, in which the surface profile (6) together with the protuberances (4) forms a golf-ball-like structure.
- 8. A plate heat exchanger comprising heat exchanger plates (1) with turbulence-promoting protuberances (4)

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which are arranged in each heat exchanger plate (1), characterised in that

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each protuberance (4) has a surface profile (6) for promoting break-up of laminar boundary layers, said surface profile (6) consisting of spherical or ellipsoid segments.

- 9. A plate heat exchanger as claimed in claim 8, in which the heat exchanger plates (1) are arranged so that the protuberances (4) in a first heat exchanger plate (1) in connection with stacking are partially accommodated in the protuberances (4) in a second heat exchanger plate (1).
- 10. A plate heat exchanger as claimed in claim 8, in which the heat exchanger plates (1) are arranged in 15 pairs with a first (10) pair of plates and a second (10') pair of plates adjoining the first, in which pairs of plates (10, 10') a first (1A) and a second (1B) plate are arranged with the protuberances (4) directed away from each other and in which pairs of plates a gap is 20 arranged between the first (1A) and the second (1B) plate.
 - 11. A plate heat exchanger as claimed in claim 8, in which the protuberances (4) in each heat exchanger plate (1) are symmetrically arranged.
- 12. A plate heat exchanger as claimed in claim 8, in which the surface profile (6) has a profile depth which is considerably smaller than the depth of the protuberances (4).
- 13. A plate heat exchanger as claimed in claim 8, 30 in which the surface profile (6) of each protuberance (4) is concavely or convexly arranged relative to the protuberance (4).
- 14. A plate heat exchanger as claimed in claim 8, in which the protuberances (4) together with the surface35 profile (6) form a golf-ball-like structure.